AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings of claims in the application.

Listing of Claims:

- 1. (cancelled)
- 2. (currently amended) The mask as claimed in claim ‡ 14, wherein the auxiliary pattern is disposed on at least one of a central portion of the top first surface of the quartz substrate and a central portion of the bottom second surface defining the bottom of the trench.
- 3. (currently amended) The mask as claimed in claim 1 14, wherein the auxiliary pattern is of an optical interference material.
- 4. (currently amended) The mask as claimed in claim 1 14, wherein the auxiliary pattern is of an opaque material.
- 5. (currently amended) The mask as claimed in claim 5 4, wherein the auxiliary pattern is of chromium.
- 6. (currently amended) The mask as claimed in claim 1 14, wherein the auxiliary pattern has a line width of 30 nm to 200 nm.
- 7. (currently amended) A method of fabricating a phase edge phase shift mask, the method comprising:

providing a transparent substrate;

etching the quartz transparent substrate to form a trench in the substrate, the

trench being situated beneath a top <u>first</u> surface of the substrate and having sides defined by a sidewall surface of the substrate and a bottom <u>second surface</u> defined <u>defining by</u> a bottom surface of the substrate trench;

forming a layer of material on the substrate at the side thereof in which the trench is formed; and

etching the layer of material to form auxiliary patterns therefrom on at least one of said top <u>first</u> and <u>bottom second</u> surfaces of said substrate as spaced laterally along said at least one of the top <u>first</u> and <u>bottom second</u> surfaces from said sidewall surface defining the sides of the trench,

wherein when the mask is used to pattern a photoresist layer, photoresist patterns are formed at areas corresponding to edges of the trench, and are not formed at areas corresponding to the auxiliary pattern.

- 8. (original) The method as claimed in claim 7, wherein said forming a layer of material on the substrate comprises forming a layer of an optical interference material on the substrate.
- 9. (original) The method as claimed in claim 7, wherein said forming a layer of material on the substrate comprises forming a layer of an opaque material on the substrate.
- 10. (original) The method as claimed in claim 9, wherein the opaque material is chromium.
- 11. (currently amended) The method as claimed in claim 7, wherein said etching a portion of the material comprises forming an auxiliary pattern having a line width of 30 nm to 200 nm on at least one of said top <u>first</u> and bottom second surfaces of said substrate as spaced laterally along said at least one of the top <u>first</u> and bottom second surfaces from said sidewall surface defining the sides of the trench.

- 12. (new) The method as claimed in claim 7, wherein the transparent substrate is quartz.
- 13. (new) The method as claimed in claim 7, wherein exposed surfaces of the auxiliary patterns are level.
 - 14. (new) A phase edge phase shift mask comprising:

a transparent substrate having a first surface and a trench constituting a 180° phase shift region, a second surface defining a bottom of the trench, and a sidewall surface extending from the first surface to the second surface and defining the sides of the trench; and

an auxiliary pattern disposed on at least said second surface,

wherein when the mask is used to pattern a photoresist layer, photoresist patterns are formed at areas corresponding to edges of the trench, and are not formed at areas corresponding to the auxiliary pattern.

- 15. (new) The mask as claimed in claim 14, wherein the transparent substrate is quartz.
 - 16. (new) A phase edge phase shift mask comprising:

a quartz substrate having a first surface a trench constituting a 180° phase shift region, a second surface defining a bottom of the trench, and a sidewall surface extending from the first surface to the second surface and defining the sides of the trench; and

auxiliary patterns disposed on said first and second surfaces,

wherein when the mask is used to pattern a photoresist layer, photoresist patterns are formed at areas corresponding to edges of the trench, and are not formed at areas corresponding to the auxiliary pattern.

- 17. (new) The mask as claimed in claim 16, wherein the auxiliary pattern is of an optical interference material.
- 18. (new) The mask as claimed in claim 16, wherein the auxiliary pattern is of an opaque material.
- 19. (new) The mask as claimed in claim 16, wherein the auxiliary pattern is of chromium.
- 20. (new) The mask as claimed in claim 16, wherein the auxiliary pattern has a line width of 30 nm to 200 nm.

AMENDMENTS TO THE DRAWINGS

The attached sheets of drawings include changes to FIGs. 3A, 4 and 5-C. These sheets, which include FIG. 3B, replace the original sheets including FIGs. 3A-B, 4 and 5A-C. In FIGs. 3A and 5A-C, typographical errors were corrected in several places to replace reference numeral 100 with 105.

Attachments: Replacement Sheet Annotated Sheet Showing Changes